

## Product datasheet for **SC326896**

### PCYT1B (NM\_001163265) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCYT1B (NM_001163265) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCYT1B
Synonyms:	CCTB; CTB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326896 representing NM_001163265. Blue=Insert sequence Red=Cloning site Green=Tag(s)

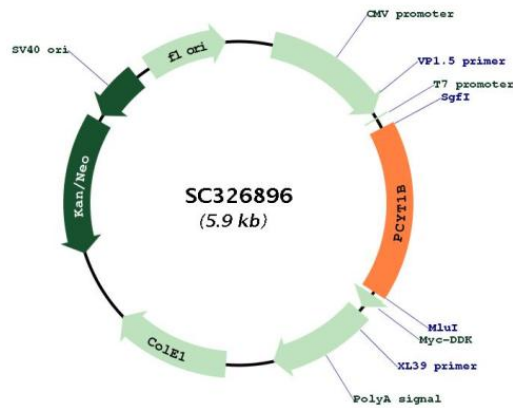
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCCAGTAGTTACCACTGATGCTGAGTCAGAAACAGGTATCCCAAATCCCTTTCCAATGAGCCTCCC
TCAGAAACCATGGAGGAAATAGAGCACACATGCCACAGCCTCGACTGACCCTGACTGCACCTGCCCCA
TTTGCTGATGAAACCAACTGCCAGTGTCAAGCACCCCATGAAAACTGACCATTGCTCAGGCCCGCTTA
GGAACACCAGCTGACAGGCTGTCAGAGTATACGCCGATGGAATATTTGACCTCTCCACTCAGGTGAT
GCAAGAGCCCTTATGCAAGCAAAAACACTGTTTCCCAACAGCTACTTGTGGTAGGATTTGCAGTGAT
GATCTCACCCACAAATTCAAAGTTTCACCGTGATGAATGAAGCCGAGAGATACGAAGCTCTCAGACAC
TGTCGCTACGTAGACGAAGTTATCAGAGATGCTCCCTGGACACTCAGCCAGAGTTTCTGAAAAACAC
AAGATTGACTTTGTGGCTCATGATGACATTCCTGATTCCTCTGCTGGCTCTGATGATGTTTACAAGCAC
ATAAAGGAAGCAGGGATGTTTCGTTCCAACGCAGAGAACAGAAGGCATCTCAACATCGGACATCATTACC
AGAATTGTTTCGTGACTATGATGTTTATGCCCGACGTAACCTCCAGAGAGGGTATACAGCCAAGGAAGT
AATGTCAGCTTTATAATGAGAAGAGGTACCGTTTCCAGAACCAAGTGGACAAAATGAAGAAAAAGTC
AAGAATGTGGAGGAAAGATCAAAGGAATTTGTGAACAGAGTGAAGAAAAAGCCATGATCTAATTCAA
AAGTGGGAAGAGAAGTCAAGGGAATTCATTGGCAACTTCCTAGAAGTGTGGACCTGATGGAGCATGG
AAGCAGATGTTCCAGGAGAGGAGCAGCCGGATGCTGCAGGCCCTTATCCCGAAGCAGAGCCCTCTGAAG
AGTTGGGCGAGGTGCAGAGACTTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM\_001163265

Insert Size: 993 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001163265.1](#)

RefSeq Size: 5239 bp

RefSeq ORF: 993 bp

Locus ID: 9468

**UniProt ID:** [Q9Y5K3](#)  
**Cytogenetics:** Xp22.11  
**Protein Families:** Stem cell - Pluripotency  
**Protein Pathways:** Glycerophospholipid metabolism, Metabolic pathways  
**MW:** 38.1 kDa

**Gene Summary:** The protein encoded by this gene belongs to the cytidyltransferase family. It is involved in the regulation of phosphatidylcholine biosynthesis. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]  
Transcript Variant: This variant (3) is alternatively spliced at the 3' end compared to variant 1, resulting in a frameshift and a shorter isoform (3) with a distinct C-terminus compared to isoform 1.